Safety Data Sheet for Cell Cultures
( BSL-1 or 2 )

SECTION 1 – PRODUCT IDENTIFIER AND COMPANY INFORMATION

Product Name: Various Cell Cultures at Biosafety Level 1 or 2

COMPANY INFORMATION: CORIELL INSTITUTE for MEDICAL RESEARCH
403 HADDON AVENUE
CAMDEN, NJ 08103

FOR INFORMATION CALL: 800-752-3805 in the United States
: 856-757-4848 from other countries

CHEMTREC EMERGENCY: 800-424-9300

SECTION 2 – HAZARD(S) IDENTIFICATION

This substance is not hazardous as defined by OSHA 29CFR 1910.1200. However as live cells, this product is a potential biohazard and should be handled according to good lab practices, with proper personal protective equipment, proper engineering controls and within the parameters of the purchaser’s safety program.

Health Hazards

Coriell recommends that all cultures be handled by qualified personnel using appropriate procedures and following Universal Precautions according to 29 CFR 1910.1030. Laboratory safety procedures are available in Laboratory Safety: Principles and Practice (Fleming, et al) and in US Government Publication, Biosafety in Microbiological and Biomedical Laboratories. Information on the classification of human infectious agents on the basis of hazard can be found in Appendix B in the NIH Guidelines for Research Involving Recombinant DNA Molecules.

SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

Either frozen or growing cells shipped in liquid cell culture medium (a mixture of components that may include, but is not limited to: inorganic salts, vitamins, amino acids, carbohydrates and other nutrients dissolved in water). Frozen Cultures may also contain a 5%-10% solution of Dimethyl sulfoxide as a cryoprotectant.

SECTION 4 - FIRST AID MEASURES

Report to your Safety Office and Seek Medical Attention as Soon as Possible

Ingestion: If person is unconscious seek emergency medical attention; never give anything by mouth to an unconscious person. If the person is conscious wash mouth out with copious amounts
of water and call a physician then administer three cupfuls of water. Do not induce vomiting unless directed to do so by a physician.

**Inhalation**: If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician.

**Dermal exposure**: Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.

**Eye exposures**: Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.

### SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing Media**: Substance is non-combustible, use most readily available extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Protective Equipment**: Wear self-contained breathing apparatus and protective clothing to prevent inhalation, ingestion, skin and eye contact.

**Specific Hazard(s)**: Responders should take into consideration the biohazard risk associated with responding to a fire in the area where the material may be stored or handled.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Procedure(s) of Personal Precaution(s)**: At a minimum use PPE listed in Section 8. Wear laboratory coat, gloves and eye protection. Avoid all contact.

**Methods for Cleaning Up**

**Patient/Victim**: Wash with soap and water. Work clothes should be laundered separately. Launder contaminated clothing before re-use. Do not take clothing home.

**Equipment/Environment**: Allow aerosols to settle; wearing protective clothing, gently cover spill with paper towel and apply suitable disinfectants such as chlorine bleach or 70% ethyl or isopropyl alcohol. Start at perimeter and work towards the center; allow sufficient contact time before clean up (30 min).

**Note**: The use of additional PPE may be necessary for cleaning solutions.

### SECTION 7 - HANDLING AND STORAGE

Follow Universal Precautions and established laboratory procedures when handling material. Handle as a potentially biohazardous material under Biosafety Level 1 or 2 containment. Cell lines derived from primate lymphoid tissue may fall under the regulations of 29 CFR 1910.1030 Bloodborne Pathogens.
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Special Requirements:
Follow all appropriate safety procedures when handling all cell lines, especially those derived from human or other primate material. Detailed discussions of laboratory safety procedures are provided in Laboratory Safety: Principles and Practice (Fleming, et al., 1995), the ATCC manual on quality control (Hay, et al., 1992), the Journal of Tissue Culture Methods (Caputo, 1988), and in the U.S. Government Publication, Biosafety in Microbiological and Biomedical Laboratories (CDC, 1999). This publication is available in its entirety in the Centers for Disease Control Office of Health and Safety’s web site.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use Personal Protective Equipment: Including Eye Protection, Chemical Resistant Gloves, and appropriate clothing to prevent skin exposure. In addition, a Respiratory protection program that complies with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Engineering Controls: The use and storage of this material requires the user to maintain and make available appropriate eyewash and safety shower facilities. Use fume hood or other appropriate ventilation method to keep airborne concentrations as low as possible.

Exposure Limits: No exposure limits for this material have been established by ACGIH, NIOSH, or OSHA.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Pink or red aqueous liquid or frosty pink frozen
No Information is available for Vapor Pressure, Vapor Density, Evaporation Rate, Viscosity, Boiling Point, Freezing/Melting Point, Decomposition Temperature, Solubility, Specific Gravity/Density, or Molecular Weight.

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: No information available.

Hazardous Decomposition Products: Will not occur.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION
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Route of Exposure
- **Eye Contact:** Data not available. Avoid eye contact.
- **Skin Contact:** Data not available. Avoid skin contact.
- **Skin Absorption:** Data not available. Avoid skin absorption.
- **Inhalation:** Data not available. Avoid inhalation.
- **Ingestion:** Data not available. Avoid ingestion.
- **Parenteral Exposure:** Data not available. Avoid parenteral exposure.

Sensitization
- **Skin:** Data not available
- **Respiratory Data:** Data not available

Target Organ(s) or System(s): Data not available

Signs and Symptoms of Exposure
- **Skin and Mucous Membranes:** Data not available
- **Respiratory:** Data not available
- **Gastrointestinal:** Data not available

Toxicity Data: Data not available
- **Effects of Long Term or Repeated Exposure:** Data not available
- **Chronic Exposure-Teratogen:** Data not available
- **Chronic Exposure-Mutagen:** Data not available
- **Chronic Exposure-Reproductive Hazard:** Data not available

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Decontaminate all wastes before disposal (steam sterilization, chemical disinfection, and/or incineration).
Dispose of in accordance with applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

Cell cultures must be packaged and shipped in compliance with the Codes of Federal Regulations (49 CFR- Transportation and 45 CFR part 46- Protection of human subjects) and International Air Transport Association (IATA) Dangerous Goods Regulations.

Biological Substance, Category B, UN3373
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This substance is not listed on the TSCA Inventory. It is for research and development use only. This substance is not SARA listed.

US Federal Regulations: SARA 313: This product is not regulated by SARA CAA, Section 112, Hazardous Air Pollutants (HAPs) (40 CFR 61): This product does not contain HAPs.

US State Regulations: California Proposition 65: This product does not contain chemicals listed under Proposition 65.

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<tr>
<th>SECTION 16-</th>
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THE ABOVE INFORMATION IS CORRECT TO THE BEST OF OUR KNOWLEDGE. ALL MATERIALS AND MIXTURES MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE USER SHOULD MAKE INDEPENDENT DECISIONS REGARDING THE COMPLETENESS OF THE INFORMATION BASED ON ALL SOURCES AVAILABLE. THE CORIELL INSTITUTE FOR MEDICAL RESEARCH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR CONTACT WITH THE ABOVE PRODUCT.